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17 January 1968

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MEMORANDUM FOR THE RECORD

SUBJECT: KH-4B Ad Hoc Committee Meeting, 11 January 1968

1. The second meeting of the KH-4B Ad Hoc Committee was held at SPPF, Westover AFB on 11 January 1968. The purpose of the meeting was to review the experiments that have been conducted on the first two KH-4B missions and to further plan the implementation and exploitation of tests on future KH-4B missions. Following is a list of attendees and the agenda of the meeting.

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a. Attendees:



b. Agenda:

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- (1) Results to date of CR-1 Experiments - [REDACTED] 25X1A
- (2) Preliminary results of Project [REDACTED] relative to Corona flights - [REDACTED] 25X1A
- (3) CR-2 Experiments - [REDACTED] 25X1A 25X1A
- (4) Status of J-3 Quartz filter development - [REDACTED] 25X1A
- (5) HPL Target density scans - [REDACTED] 25X1A
- (6) ON, DP, DN Distribution methods and timing - [REDACTED] 25X1A

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2. [REDACTED] the commander of the SPPF, opened the official meeting by greeting the attendees with a short welcoming speech. He then excused himself and did not participate in the business meeting.

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opened the business session by presenting the agenda and introducing Mr. [REDACTED] of DDS&T as a new, non-voting member. He said [REDACTED] function would be that of recording secretary.

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3. [REDACTED] summarized the results of the preliminary analysis of the CR-2 (Mission 1102) experiments. He said the polarizer test had produced little result suitable for analysis. The twenty degree orientation of the filter grid had been designed for a very specific launch window. Since the launch was approximately four days later than originally scheduled, the benefits of polarization had been wasted. It was stated by [REDACTED] and agreed to by the group that the filter had caused minor image degradation. He said he was more impressed with the Bi-color experiment and was anxious for its full exploitation. He said he shared the opinion of the 1102 PET that the SF05 (Wratten 57) filter caused only very minor image acuity differences. He asked me, as the NPIC representative, if the Center would design and implement a PI analysis of the Bi-color photography. I said we would, after receipt of a formal request.

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[REDACTED] said he would take the appropriate steps to issue a message. I explained to the group that NPIC has no facilities for projecting or printing two or more photographic records in register as is necessary for Bi-color presentations. [REDACTED] suggested that [REDACTED] Bi-color viewer-printer be shipped to NPIC for the analysis.

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objected. He said the instrument was too delicate to transport safely. [REDACTED] said he was traveling to [REDACTED] the following day and would investigate the possibility of having the Aeries printer shipped to NPIC. I said I would search NPIC for a possible jury-rigg arrangement.

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[REDACTED] said he was confident that with the equipment and talent at NPIC, we could come up with something useable.

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4. The Chairman then asked [REDACTED] to discuss the status of the CR-1 evaluations being accomplished at [REDACTED] said the J-3 Engineering Evaluation Report for CR-1 would be issued in two or more parts. The engineering analysis, pertaining to the results of flight instrumentation analysis, was in the proofing stages and would be published in the very near future. He said the exposure analysis report would be ready on or about 1 February 1968. A possible third report would deal with the filter experiments. It was unclear as to whether or not there would be a third section on CR-1. The filters used were the wratten 21, 23A, and 25. All have been tested thoroughly in the past.

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5. [REDACTED] suggested that the report draft (exposure analysis section) be distributed to the group in attendance for approval before the final printing. He said that since the group represented the user community, their inputs should be considered in an effort to issue a document of maximum user value. He and [REDACTED] further stated that a meeting of the group should be held at [REDACTED] approximately one week after dissemination of the draft to discuss the final analysis of the draft.

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6. It was decided that the dissemination of the reports should be the same as the Ekit series. However, the report series will not be referred to as Ekit. While no agreement was reached on a series title, it can temporarily be referred to as the J-3 Engineering Evaluations.

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7. [REDACTED] then described the status of quartz filter development for the KH-4B camera system. He said the filter glass, being only .005 inch thick, was extremely difficult to polish; and that degrading surface imperfections have therefore been a problem. He also said that the process of coating the filter surfaces was causing the glass to warp. [REDACTED] said research was being conducted to determine the consequence of warpage of the filter glass.

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8. [REDACTED] was asked to comment on Project [REDACTED] developments as it pertains to the Corona camera system. He said that data collection for the project had been restricted to photography from the KH-4A camera system and that the data collection phase was essentially completed but the data analysis was yet to be accomplished.

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9. A discussion of the experiment schedule followed. [REDACTED] distributed copies of the schedule plan as of 11 January 1968. (Attachment to this report). It was stated by [REDACTED] that the official title of the Ad Hoc Committee was "Corona Photographic Experimental Committee".

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10. I, as NPIC's representative, was asked by [REDACTED] to explain to the group why he and I had decided that the High Priority List (HPL) target density scans should be accomplished at NPIC although the group had previously decided that the traces should be done at Westover. I explained the difficulty of target identification, original negative availability, the value of personnel experience, and the availability of photo-interpreter support at NPIC. The group then agreed the job could be done better at NPIC.

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11. The discussion evolved to the success of the CR-2 (Mission 1102) requirement satisfaction. [REDACTED] was generally unhappy with the time schedule that had prevailed. I explained to him that the service rendered by NPIC as well as by other components of the community had been excellent in my opinion. The remainder of the group seemed to share my opinion. The following discussion was devoted to explaining the approximate schedule of mission product reproduction and exploitation. [REDACTED] presented a preconceived schedule which he considered to be appropriate. A group review of the schedule revealed several errors. [REDACTED] there- fore agreed to take the suggestions of the group under consideration and issue a modified schedule at a later date. He explained that the schedule was intended only as a guide and that it might serve to eliminate confusion as to the routing of mission products.

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12. A continuation of the discussion pertaining to priorities and dissemination of mission products revealed that [REDACTED] was not aware that pass 154D (the operational bi-color pass) had not been routed through Westover for reproduction purposes but rather had been shipped directly from [REDACTED] to NPIC, then to ACIC. While it was not clear how this had been arranged, it was evident that the proper procedures had not been followed. Popular opinion was that [REDACTED] of DDS&T/OSP had made the arrangements through [REDACTED] of the [REDACTED] was very angry. He said the photography is intended for intelligence gathering, and that was always to be the first consideration in the dissemination and exploitation of mission products. He said any and all requests for altering the normal film handling channels should be made to his office [REDACTED] and NPIC [REDACTED]. He said all such requests would be contingent upon NPIC approval. He further stated that he would like NPIC to handle such requests while maintaining a liaison with his office.

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13. Other schedule agreements made by me in behalf of NPIC were:

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a. [REDACTED] negatives of the KH-4B missions will be shipped to Westover on the Friday following the PET meeting (under normal circumstances).

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b. [REDACTED] negatives will be shipped to NPIC (for PET meeting) before delivery to Westover.

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c. The HPL target density scans will be completed by NPIC five working days after NPIC's receipt of the original negative.

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d. Mission Coverage Plots (MCP's) will routinely be delivered to DDS&T for transmittal to [REDACTED] with or before their [REDACTED] copy of [REDACTED] on the first four KH-4B missions.

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e. MCP's of past missions from Mission 1014 through 1102, that have not been supplied to [REDACTED] (in support of the Corona Haze Study) are available through formal request channels.

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14. The attendees were asked by [REDACTED] for comments or suggestions pertaining to future experiments.

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a. [REDACTED] said he would like [REDACTED] comments on the possibility of flying a sample of Kodachrome II in CR-3 (April). [REDACTED] said he was not sure [REDACTED] could respond in that time period. The problem is two-fold:

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(1) Kodachrome II has never been coated on thin base film.

(2) There is no existing 70 mm processor suitable for the process of the material.

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[REDACTED] said he would take the proposal back to his facility for further consideration.

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b. [REDACTED] suggested deeper study of polarizer aspects. He said there is probably more information provided by polarization than is being recognized. He said that material textures could probably be recognized under some conditions. He also said that information might be lost under some other conditions of polarization. It was stated that more polarization tests are scheduled for CR-6 or 7. Although we do not have a formal request, it is my opinion that NPIC should do a detailed PI analysis of the photography exposed through the pola-screen on 1102.

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c. [REDACTED] said that a test of S0121 on the same mission as the Kodachrome II test might be worthwhile. There was then a

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brief discussion by the group of the corona static problems associated with the use of S0 121 and Kodachrome II.

is working toward elimination of the problem by appropriate control of vehicle pressure.

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d. said he thought film type 3400 should be used for a sun-line experiment. also suggested that film type 3401 be considered for that purpose.

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e. In response to an inquiry by said if and when the dual-gamma, humpback process was used again, it would be on a full bucket.

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f. I said Spectral zonal aspects of bi-color showed more promise than did the color provided by the test. And therefore, I wondered if the Wratten 25/SFO-05 was also the best combination for Spectral zonal consideration without regard to bi-color.

said it had worked out that way, accidentally. He said the two filters chosen were at opposite ends of the useable part of the spectrum and therefore are best for both purposes.

15. The meeting adjourned at approximately 1600 hours. Official minutes are being compiled by for dissemination to the attendees.

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Attachment: a/s

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